

MURSKY, Josef

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: [not given]

Source: Prague, Sbornik Ceskoslovenske Spolecnosti Zemepisno, Vol 66, No 4, 61,  
pp 345-359.

Data: "The Reconstruction of Travel Accessibility."

GPO 981643

HURSKY, J.

On the theory of flexibility of economic areas. Sbor zem 69  
no.1:79-81 '64.

HURSKY, J.

Magnesite industry in Austria. Sbor zom 69 no.4:319-320 '64.

Collection "Wiener geographische Scriften." Reviewed by J.Hursky.  
Ibid.:346

HURSKY, J.

Supplement to the list of towns in Czechoslovakia. Sbor zem  
70 no.1:70-73 '65.

Process of urbanization in the Netherlands. Ibid.:79-80

RINGEL, J.; HURT, K.; ISELE, J.; SVAB, J.

Pheochromocytoma as an emergency surgical disease. Rozhl. chir.  
44 no.6:382-385 Je '65.

1. Detské oddelení (vedoucí doc. dr. J. Ringel), urologické oddelení (vedoucí MUDr. K. Hurt) a oční oddelení (vedoucí doc. dr. J. Isele, CSc.), nemocnice Obvodního ústavu národního zdraví v Pardubicích a Urologická klinika lékařské fakulty Karlovy University v Hradci Králové (prednosta doc. dr. J. Svab, CSc.).

HURT, K.; MARHOLD, J.; MERHAUT, J.

Occupational tumors of the urinary system in Czechoslovakia.  
Neoplasma 8 no.5:551-560 '61.

1. Urologische Abt. d. Bezirkskrankenhauses, Pardubice, Forschung-  
institut für organische Synthesen, Pardubice--Rybitvi,  
Betriebs-sanitätsdistrikt der Ostböhmischen chemischen Werke Semtin--  
Rybitvi.

(UROGENITAL SYSTEM neopl)  
(CARCINOGENS)

(OCCUPATIONAL DISEASES)

HURT, V.

Texture and structural changes in Silon fibers. II. V.  
Hurt and M. Jamblich (Výzkumný ústav umělých vláken,  
Svitavy, Czech.). *Chem. Abstr.* 12, 406-808 (1968) (German  
summary); cf. C.A. 52, 21122/.—The orientation of Silon  
fiber was studied by means of x-rays. At continuous elon-  
gation, a temporary orientation in a certain area of the  
elongation (ratio) was observed. This orientation suggests  
the possibility of a miniature telescopic effect when con-  
tinuous elongation is carried out above the crossing point  
of 2nd degree. The change of blackening intensity of dia-  
tropic (002) reflections was observed, starting from the  
elongation (ratio) relation 1:2.8 until the breaking of the  
fiber. The obtained min. in the correlation of intensity  
changes of blackening of diatropic (002) reflections and the  
elongation indicated the most advantageous mech. proper-  
ties of the fiber. The mechanism of elongation by applying  
a continuous process above the crossing point of 2nd degree  
was also discussed. Jan Micks

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HEC gj  
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V.

9-7

HURT, V.; KUSAK, A.

Modernization of machine tools. p. 218.

STROJIRENSKA VYROBA. (Ministerstvo tezkého strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia. Vol. 7, no. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.



HURT, Vratislav, inz.; JAMBRICH, Martin, inz.

Determining the orientation of fibers by means of tangent line to the inflection point of blackening curve. Shem zvesti 16 no.9:660-663 S '62.

1. Vyskumny ustav chemickych vlakien, Svit, okres Poprad.

HURTIG, Eckart

Examination of the propagation velocity of longitudinal waves in petrographic models. *Studia geophys* 6 no.2:168-175 '62.

1. Institut für geophysikalische Erkundung, Karl-Marx-Universität, Talstrasse 35, Leipzig C 1, Deutsche Demokratische Republik.

HURUBA, V., ing.; MARINESCU, T.

Quick calculation of chord reduction corrections in projections:  
stereographic, unique secant plan, Brasov and Gauss-Kruger. Rev  
geodezie 7 no.1:6-14 '63.

1. Directia de sistematizare, arhitectura si proiectare a constructiilor,  
Tg. Mures (for Huruba). 2.I.S.P.A. Bucuresti (for Marinescu).

HURUBAN, Ivo; VITEK, Bohumir

Pressure distribution in the cellar and foundation masonry. Acta tech  
Cz t no.4:353-370 '60. (ERAI 9:10)

1. Czechoslovak Academy of Sciences, Institute for Theoretical and  
Applied Mechanics, Building Department, Brno.  
(Masonry) (Foundations) (Basements)

HURWIC, Josef, prof. dr

Radioactivity of protons. Problemy 19 no.10:646 '63.

Demography from the point of view of history of social development.  
654

HURWIC, Jozef

"Werner Heisenberg and the physics of our time" by Fritz Bopp.  
Reviewed by Jozef Hurwic. Roczniki chemii 36 no.11;1719-1720 '62.

HURWIC, Jozef

Jozef Rolinski (1889-1962); on the first anniversary of his death. Postepy fizyki 14 no. 3: 281-287 '63.

1. Katedra Fizyki, Wydział Chemiczny, Politechnika, Warszawa.

HURWIC, J., prof. dr; CIBOROWSKI, S., doc. dr

Report from the Congress of Delegates of the Polish Chemical Society. Wiad chem 17 no. 7:432-433 J1 '63.

1. Wiceprezes Polskiego Towarzystwa Chemicznego, Warszawa (for Hurwic). 2. Sekretarz Polskiego Towarzystwa Chemicznego, Warszawa (for Ciborowski).



HURWIC, Jozef, prof. dr

In Bunsen's city. Problemy 19 no.12:754-762 '63.

1. Wicepreses Polskiego Towarzystwa Chemicznego, Warszawa.

HURWIC, Jozef, prof. dr

Xenonic and kryptononic acids. Problemy 20 no. 4: 246-247  
'64.

BT-3, Petroleum

B. G.

HURWIC, J.

Production of motor fuel and lubricant from gas tar. J. Hurwic.  
(Form. chem. 1944, 20, 314-317). Five tar is distilled, and the  
fractions boiling at 110-200° (20%), 200-300° (30%), and 300-500° (50%) (20)  
are collected separately; the residue is asphalt and semi-coke.  
The fractions are fractionally distilled to give petrol substitute 15, kerosene sub-  
stitute 20, lubricant substitute 25, "motor oil" 15, machine oil 10,  
and asphalt 10%. It is stated (6-10 hr. at room temp.), 30-  
35% of its vol. is distilled off (added to I above), and the residue is  
cooled and filtered. The filtrate serves as a substitute motor  
lubricant, and both this and the petrol substitute gave satisfactory  
results in motor transport practice in Russia. R. Tauscos.

CA  
HURWIC, J.

W. D. Miles  
Chemistry in Russ. A. J. Hurwic, *Procyd Chem.* 3,  
521-7(1966).—The research work and the achievements of  
the outstanding Caerist and Soviet chemists are outlined.  
Frank Conet

P. I. A.  
HURWIC, J.

*Chemistry & Chemical Technology*

DOI 639.133 : 547.412 133.00 : 547.532 09 : 547.551  
Hurwic, J. Application of Saturated Solution of Water in Benzene and Carbon Tetrachloride as the Solvents in Determination of Dipole Moment.

„Roztworzenie nasyconych roztworów wody w benzenu i tetrachlorku węglu jako rozpuszczalników w pomiarach momentów dipolowych”. Przemysł chemiczny. No. 9, 1960, pp. 527-529, 2 tabs.

Using as solvents a saturated solution of water in benzene and carbon tetrachloride. Instead of dehydrated benzene and carbon tetrachloride — a dipole moment of aniline was determined; dielectric constants of the solvents applied were used. The results are in agreement with the data obtained by other investigators who have used anhydrous solvents. The application of the solvents saturated with water makes it possible for both the apparatus and the technique of measurement to be much simpler.

Chem Abstracts

General and Physical Chemistry  
(2)

HURWIC, J.

Saturated solutions of water in benzene and carbon tetrachloride as the solvents for measurements of dipole moments. Jacek Hurwic (Polytech. Inst. Phys. Chem., Warsaw). *PRACOWNIA Chem.* 26, 114-31(1981)(English summary).--The dipole moment of aniline was detd. by use of polar. solns. of  $H_2O$  in  $C_6H_6$  and  $CCl_4$  as solvents instead of anhyd.  $C_6H_6$  and  $CCl_4$  (dielec. consts. were taken into account). Results agree with data by other authors using anhyd. solvents. Application of water-satd. solvents allows simplification of app. and measurements. B. Nowinski

1957

**"APPROVED FOR RELEASE: Thursday, July 27, 2000**

**CIA-RDP86-00513R00051831**

**APPROVED FOR RELEASE: Thursday, July 27, 2000**

**CIA-RDP86-00513R00051831(**

HURWIC, J.

"Popularization of Chemistry by the Polish Association of Chemistry." P. 327.  
(PRZEMISL CHEMICZNY, Vol. 10, No. 6, June, 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
No. 1, Jan. 1955 Uncl.



Hurwic, Josef

✓ A quantum-mechanical approach to Zachariasen's stereo-  
chemical rule. Josef Hurwic (Inst. Technol., Warsaw).  
Roczniki Chem. 29, 405-424 (1955) (English summary).--The  
spatial arrangement of bonds in  $sp^3d$  and  $sp^3d^2$  type, where  $n$  is 2 or 3, were theoretically examined.  
The total no. of valence electrons was calculated. The spatial  
configuration resulting from these considerations was con-  
sistent with Zachariasen's stereochem. rule (C.A. 25,  
4756), according to which this configuration depends on the  
total no. of valence electrons. P. Dreyfuss

C11

1955

HURWIC, J.

Bulletin - Vol. 2, no. 10, 1954.

Suggested standard for low dielectric constant. In English. p. 489.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955  
Uncl.

HURWIG, Jozef

"Shortcomings of Polish Chemical Literature," by Jozef Hurwic, published in Nauka Polska, 4th Year, No. 1(13), Warsaw, Polish Academy of Sciences, 1956, from the Warsaw Polytechnic.

HURWIC, J.

21(8)

PHASE I BOOK EXPLOITATION POL/2380

Wrocławskie Towarzystwo Naukowe

Izotopy; dztery odczyty o zastosowaniach (Isotopes; Four Lectures on Their Application) [Wrocław] Państwowe wydawnictwo naukowe, 1957. 73 p. 2,000 copies printed.

Ed.: Jan Mergentaler.

PURPOSE: This publication is intended for both physicists and interested laymen.

COVERAGE: The collection of articles represents a series of lectures delivered at the Conference on the Use of Isotopes in Science and Technology organized by the Wrocławskie Towarzystwo Naukowe (Wrocław [Breslau] Science Association) at the Politechnika Wrocławska (Wrocław Polytechnic Institute), Nov. 5, 1955. The introduction was given by the chairman of the Association, Professor Doctor Stanislaw Kulczynski. The text of the four lectures is given in this volume. The discussions which followed these lectures are not given. No references are given.

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Isotopes (Cont.) APPROVED FOR RELEASE: Thursday, July 27, 2000 POL/2380 CIA-RDP86-00513R0005 31(

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Baranowski, Tadeusz. Use of Isotopes in Biology This is a brief review of the development of isotopic methods in biological research.	17
Moscicki, Wlodzimierz. Isotopic Analysis in Absolute Chronology The author reviews methods used in age determination with the aid of radioactive isotopes, uranium dating, carbon C <sup>14</sup> dating, and other methods.	31
Hurwic, Jozef. Use of Isotopes as Presented by the Geneva Conference, With Particular Attention to Radiochemistry This paper is a brief summary of the discussions on the use of isotopes held at the International Conference on the Peaceful Use of Atomic Energy, Geneva, August 1955. The author mentions the fact that the Soviet	61

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Isotopes (Cont.)

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contributed radioactive isotopes for the Polish research program.

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HURWIC, JOZEF.

U progu nowej epoki. (Wyd. 1. Warszawa). Ksiązka i Wiedza, 1956. 70 p.  
(At the threshold of a new epoch. 1st ed. illus., ports., footnotes).

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

HURWIC, JOSEF

POLLAND / Physical Chemistry. Moloculo. Chemical Bold.

B-4

Abs Jour : Ref Zhur - Khim., No 10, 1958, No 31480

Author : Jozef Hurwic, Jerzy Michalczyk, Krystyna Pogorzelska.

Inst : -

Title : Intermolecular Compounds of Pyridine and Acetic Acid.

Orig Pub : Roczn. chem., 1957, 31, No 1, 265-275.

Abstract : The dielectric polarization (DP) of pyridine (I) and acetic acid (II) mixtures in ratios corresponding to I: 4 II and 2 I : 3 II was determined in dilute benzene solutions. The difference between the experimental value of the DP and the sum of DP-s of the component parts of the mixture was 0.87 cub. cm in the case of the first solution and 1.04 cub. cm in the case of the second solution. Thus, the DP, same as other physical magnitudes of the mixtures

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POLLAND / Physical Chemistry. Moloculo. Chemical Bold.

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Abs Jour : Ref Zhur - Khim., No 10, 1958, No 31480

under study, shows great divergences from additivity. The presence of a series of complexes, the composition of which depends on the concentration, is assumed. A probable mechanism of the formation of these complexes is suggested. Bibliography with 21 titles.

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HURWIC, J.

16th International Congress of Pure and Applied Chemistry.

p. 81. (KOSMOS. SERIA B: PRZYWODA NIEOZYWIONA.) (Warszawa, Poland) Vol. 4,  
no. 1, 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958



POLAND / Organic Chemistry. Theoretical Organic Chemistry.

G-1

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1133.

Author : ~~Hurwitz, J.~~ Radzikowski, J., Dabrowski, J.

Inst : Not given.

Title : The Investigation of a Tautomerism in  $\beta$ -amino-vinyl Acids by Measuring the Dielectric Constant of their Solutions.

Orig Pub: Roczn. chem., 1958, 32, No 1, 159-161.

Abstract: The tautomerism revealed previously (RZhKhim, 1955, 40057, 1957, 26610) by means of refractometric and spectroscopic measurements in  $\beta$ -aminovinyl ketones  $RCOCH = CHNHR'$ ,  $\rightarrow RC(OH) = CHCH = NR'$   
 la R =  $C_2H_5$ , R' = H; b R = n -  $C_3H_7$ , R' = H;  
 c R = R' -  $CH_3$ ; d R = iso -  $C_4H_9$ , R' =  $CH_3$ ) is

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*HURWITZ, J.*

SOV/25-59-5-32/56

AUTHOR: Hurwitz, J. Doctor of Technical Sciences (WARSAW)

TITLE: A Great Career of a Small Gadget

PERIODICAL: Nauka i zhizn' 1959, No. 5, pp 51-53 (USSR)

ABSTRACT: The author is a Professor of Chemistry in the Warsaw Polytechnical Institute, Vice-President of the Polish Chemical Society, Member of the Executive Body of the Polish Society for the Propagation of Sciences, Chief Editor of the monthly magazines "Problemy" and "The Contemporary Encyclopaedia". He describes ebulliometers constructed in 1925 and 1934 by the Polish Scientist W. Swietoslowski jointly with W. Romer. This instrument measures accurately the boiling point of any liquid at a given pressure. There is 1 drawing and 1 diagram.

ASSOCIATION: Warsaw Polytechnical Institute.

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MURWIC, J.

Periodic law of chemical elements and its author; on the 125th anniversary of Mendeleev's birth and the 90th anniversary of the publication of the periodic law. p. 93.

KOSMOS. SERIA B: PRZYRODA NIECZYNIONA. (Polskie Towarzystwo Przyrodników im. Kopernika) Warszawa, Poland. Vol. 5, no. 2, 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959.

UNCL

HURWIC, Jozef

Extrapolation of the specific refraction of a dissolved compound to  
an infinitely high dilution. Roczniki chemii 34 no.1:275-278 '60.  
(KEAI 10:9)

1. Department of Physical Chemistry, Institute of Technology, Warsaw.

(Refraction) (Solutions)

HURWIC, Jozef; MICHALCZYK, Jerzy

Relation between the saturated vapor pressure and dielectric constant  
for certain binary liquid systems. Roczniki chemii 34 no.5:1423-1438  
'60. (EEAI 10:9)

1. Katedra Chemii Fizycznej Politechniki, Warszawa.

(Vapor pressure) (Dielectrics) (Liquids)  
(Systems(Chemistry))

HURWIC, Jozef, prof. dr

Geneva for the third time. Problemy 20 no.11:646-664 '64.

In Wilhelm Tell's country. Ibid.:690-692 '64.

HURWIC, Jozef; MICHALCZYK, Jerzy

Relation between the saturated vapor pressure and density of some  
binary liquid systems, Roczniki chemii 34 no.5:1439-1443 '60.  
(EEAI 10:9)

1. Katedra Chemii Fizycznej Politechniki, Warszawa.

(Vapor pressure) (Liquids) (Systems(Chemistry))

26833

P/046/81/006/007/005/008

D249/D302

21. 4100

AUTHORS: Michalezyk, Jerzy, and Harwic, Józef

TITLE: Dipole moments of complexes of uranyl nitrate with tributylphosphate

PERIODICAL: Nukleonika, v. 6, no. 7-8, 1961, 503-509

TEXT: The following work, whose object is to find what complexes are formed by  $UO_2(NO_3)_2$  with tributylphosphate (BP) and to determine their dipole moments, is an extension of the work of V. B. Shevchenko and his co-workers, who failed to report on their methods of investigation. A saturated solution of  $UO_2(NO_3)_2$  in TBP was carefully prepared (free from  $H_2O$  and  $HNO_3$ ). The mole fraction (x) of  $UO_2(NO_3)_2$  in this solution was determined spectrophotometrically by Władysław Rutkowski at Pracowni Chemii Analitycznej IBJ, Warszawa (Laboratory of Analytical Chemistry IBJ, Warsaw). Portions of this solution were dissolved in varying amounts of pure benzene to give four solutions, each with a different weight fraction (w) of

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Dipole moments of...

$UO_2(NO_3)_2$  - TBP, but with constant  $x$  value. Further portions of the saturated solution were diluted with TBP to give three solutions, each with a different  $x$  value. From each of these, a series of benzene solutions was made, each solution with a different  $w$  ( $x$  for each series was constant). For every resulting solution, the dielectric constant  $\epsilon$ , the density  $d$  and the refractive index  $n$  were determined. The value was found by the heterodyne beat method;  $d$  was found pycnometrically, while  $n$  was obtained with the aid of a universal refractometer. From the values of  $w$ ,  $d$ ,  $\epsilon$  and  $n$ , the factors  $\alpha$ ,  $\beta$  and  $\gamma$  were determined for every solution where

$$\alpha = \frac{d-d_b}{wd_b}, \quad \beta = \frac{\epsilon - \epsilon_b}{w\epsilon_b} \quad \text{and} \quad \gamma = \frac{n^2 - n_b^2}{wn_b^2} \quad (\text{the postscript } b$$

refers to the pure solvent, i.e., benzene). The specific polarization  $P$ , for the  $UO_2(NO_3)_2$  - TBP was calculated at infinite dilution from  $d_b$ ,  $\epsilon_b$ ,  $\alpha$  and  $\beta$  and the specific refractivity  $R$  was calculated from  $d_b$ ,  $n_b$ ,  $\alpha$  and  $\gamma$ . The values thus obtained of  $P$  and  $R$  were plotted against  $x$ . The

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Dipole moments of...

maximum value of  $x$  obtained was 0.4260; a pure  $UO_2(NO_3)_2$  TBP complex would have  $x = 0.5$ , hence it can be inferred that the saturated solution does not consist of this complex alone. Extrapolation of the experimental curve of the  $P$  values against  $x$  to  $x = 0.5$  gives  $P_I = 0.475 \text{ cm}^3 \text{ g}^{-1}$  (where I refers to  $UO_2(NO_3)_2$  - TBP. Since the experimental graph deviates from the straight line, it may be assumed that at higher TBP concentrations the complex  $UO_2(NO_3)_2 \cdot 2TBP$  as well as free TBP are present. If no free TBP were present, additive relationship of the two complexes could be expected having to a linear relationship between the  $P$  and  $x$ . A plot of  $P$  versus  $x$  would then give a straight line passing through the point ( $P = 0.426$ ,  $x = 0.5$ ). If a tangent to the experimental curve at  $x = 0.5$  be extended to meet a vertical line at  $x = 0.39$  (corresponding to  $UO_2(NO_3)_2 \cdot 2TBP$ ) then the point of intersection would give  $P_{II}$  (where II refers to  $UO_2(NO_3)_2 \cdot 2TBP$ . By this method  $P_{II}$  was found to be  $0.465 \text{ cm}^3 \text{ g}^{-1}$ . A graph of  $R$  versus  $x$  gives a curve

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Dipole moments of...

closely approaching a straight line. Hence  $R_I$  ( $= 0.183 \text{ cm}^3 \text{ g}^{-1}$ ) and  $R_{II}$  ( $= 0.193 \text{ cm}^3 \text{ g}^{-1}$ ) were obtained by extrapolation to  $x = 0.5$  and  $x = 0.33$  respectively. By multiplying the values  $P_I P_{II}$  and  $R_I R_{II}$  by the molecular weight of the corresponding complex, the molar polarizations,  $[P_I]$  and  $[P_{II}]$ , and the molar refractivities,  $[R_I]$  and  $[R_{II}]$ , were obtained. From these the dipole moments were calculated by  $\mu = 0.1273 \sqrt{([P] - [R]) \cdot T}$  and found to be as follows:  $\mu_I = 3.04\text{D}$ ,  $\mu_{II} = 3.47\text{D}$ . The low value of  $\mu_{II}$  (3.1D) found by Shevchenko was due to his failure to recognize the presence of  $\text{UO}_2(\text{NO}_3)_2 - \text{TBP}$  and free TBP in the solutions. The authors express their gratitude to Mieczysław Taubem for his valuable suggestions and to Professor Witold Tomassian for the loan of apparatus. There are 1 figure, 4 tables and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: R. J. LeFevre, H. Vine: J. Chem. Soc. 1805 (1937).

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P/046/61/006/007/005/008  
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Dipole moments of...

ASSOCIATION: Politechnika Warszawska, Warszawa, Wydział chemiczny,  
Katedra fizyki (Warsaw Polytechnic, Chemistry Section,  
Department of Physics)

SUBMITTED: May, 1961

Card 5/5

HURWIC, Józef, prof. dr.

Rewards for scientific works on nuclear energy. Problemy 18 nr. 2:  
147-149. '62

1. Członek Państwowej Rady i Komitetu Polskiej Akademii Nauk do  
Specjalnego Pokojowego Wykorzystania Energii Jądrowej, Warszawa.

HURWIC, Josef, prof. dr.

The prophet in the laboratory; Dymitr Mendeleev and the periodic table of the chemical elements. Problemy 18 no.5:334-349 '62.

1. Kierownik Katedry Fizyki, Wydział Chemiczny, Politechnika, Warszawa.

HURWIC, Jozef

A symposium on complex compounds. Problemy 18 no.8:592-596 '62.

HURWIC, Jozef

"Elementary wave mechanics applied to quantum chemistry"  
by W. Heitler. Reviewed by Jozef Hurwic. Roczniki chemii 36  
no.5:987 '62.

HURWIC, Jozef

"Nuclear- and radiochemistry; fundamentals, practical methods and technical application" by Roland Lindner. Reviewed by Jozef Hurwic. Przem chem 41 no.12:736 D '62.

*HURWIC, Jozef*

POLAND

HURWIC, Jozef

Department of Physics of the Division of Chemistry,  
Warsaw Polytechnic School (Katedra Fizyki na Wydziale  
Chemicznym Politechniki Warszawskiej), Warsaw

1963  
Crakow, Postepy fizyki, No 3, /pp 281-88.

"Jozef Rolinski (1889-1962)".

HURWIC Jozef, prof. dr

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CIA-RDP86-00513R000

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Hypernuclei. Problemy 19 no.5:318 '63.



HURWIC, Jozef, prof. dr.

40 million degrees. Problemy 19 no.6:387 '63,

MICHALCZYK, Jerzy; HURWIC, Jozef

Uranyl nitrate complexes with tributylphosphate. Nukleonika 9  
no. 6:483-484 '64.

1. Department of Physics, Division of Chemistry, Technical  
University, Warsaw.

HURWIC, Jozef; JARZYNSKA, Stefania; MICHALCZYK, Jerzy

The  $\text{Th}(\text{NO}_3)_4$ . 2 dipole moment. Nukleonika 9 no. 6:484-485 '64.

The  $\text{La}(\text{NO}_3)_3$ . 3TBP dipole moment. Ibid. 1486

1. Department of Physics, Division of Chemistry, Technical University, Warsaw.

HURWIC, Jozef

Antihyperons. Problemy 19 [i.e. 20] no. 2:116 '64.

L 5013-66 ENT(m) DIAAP

ACC NR: AP5025546

YU/0020/65/000/002/0023/0028

AUTHOR: Hurwic, Jozef (Professor, Doctor, President)

TITLE: Activities in the nuclear field in Poland

SOURCE: Nuklearna energija, no. 2, 1965, 23-28

TOPIC TAGS: nuclear power, nuclear physics, nuclear research

ABSTRACT: Following a brief historical introduction, this article, written by a Polish scientist for the Yugoslav scientific community, discusses the main 17 institutions related to various aspects of Polish nuclear research efforts and describes various particle accelerators and nuclear reactors. The author outlines the current programs in the physics of the atomic nucleus, elementary particles, cosmic rays, solid and liquids, and plasma. The status and advances in radiochemistry, radiation chemistry, technology of reactor fuel and reactor materials; and isotope uses in physics, chemistry, engineering, biology, medicine, and agriculture are discussed. The author concludes by stating that the first nuclear power plant is scheduled to go into operation sometime after 1970. Orig. art. has: 4 figures.

ASSOCIATION: Commission for Publication and Popularization of the State Council and the Committee for Peaceful Uses of Atomic Energy of the Polish Academy of Sciences (Komisija za publikacije i popularizaciju Drzavnog saveta i Komiteta za mirnodopsku primenu nuclearne energije Poljske akademije nauka)

Card 1/2

0901 0213

L 5013-66

ACC NR: AP5025546

SUBMITTED: 00

ENCL: 00

SUB CODE: NP

NO REF SOV: 000

OTHER: 000

PC

Card 2/2

POLAND

HURWIC, Jozef, prof. dr; KLEPS, Jerzy, mgr inz.; WOSIEK, Stefania, mgr inz.

Chair of Physics, Section of Chemistry of Warsaw Polytechnic  
(Katedra Fizyki na Wydziale Chemicznym, Politechniki, Warszawa)  
(for all)

Warsaw, Chemia analityczna, No 6, November-December 1965, pp1365-1371

"Determination of water content of trotyl, by the method of  
dielectric constant measurement."

L 03779-67 EWP(j) RM

ACC NR: AP6031702 (N) SOURCE CODE: PO/0099/66/040/003/0487/0488  
AUTHOR: Hurwic, Jozef; Smialek-Razmierowska, Sonia; Maliszewski, Bogdan 31(

ORG: Department of Physics, Chemical Faculty, Institute of Technology, Warsaw  
(Katedra Fizyki na Wydziale Chemicznym Politechniki)

TITLE: Dipole moments of some phosphoroorganic compounds with sulphur and selenium

SOURCE: Roczniki chemii-Annales societatis chimicae polonorum, v. 40, no. 3, 1966,  
487-488

TOPIC TAGS: organic phosphorus compound, dipole moment, sulfur, selenium

ABSTRACT: Dipole moments of 6 phosphoorganic compounds with sulfur and selenium were  
determined by the dilute solution method (in dry benzene) with an accuracy of  
 $\Delta p = \pm 0.1D$ . Orig. art. has: 1 table. [JPRS: 36,002]

SUB CODE: 07 / SUBM DATE: 19Oct65 / ORIG REF: 001 / SOV REF: 001  
OTH REF: 002

HURWIC, M  
HURWIC, M.

Polonization of chemical terms.

p. 169 (Wiadomosci Chemiczne) Vol. 10, no. 3, Mar. 1956, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958



HURWIC, Maria, mgr

Cancer and resistance to it. Problemy 21 no.4:246 '65.

JIRKA, J.; FENCL, V.; HURYCH, J.; HORNYCH, A.

Intermittent peritoneal dialysis. Cas. lek. cesk. 103 no.47:  
1289-1299 20 N '64.

1. Ustav pro choroby krevního, Praha-Krc, (reditel prof. dr.  
J. Brod, DrSc.).

CHVAPIL, M.; MACEK, M.; HURYCH, J.

The physiology of fibroblasts. Study on collagen synthesis in tissue cultures of fibroblasts. Cesk. fysiolo. 14 no.2:93-97  
Mr '65.

1. Ustav hygieny prace a chorob z povolani a Ustav vyzkumu  
vyvoje ditete fakulty detskeho lekarstvi Karlovy University,  
Praha.

Lucyaz, J.

✓25. ANALYSIS OF LOEWALL WORKING OF TWO CUTTING-TOOTHED PAGES AT ELEKTRIC  
COLLIERY. Falicki, Z., ~~Baran~~, J. and Goczulowski A. (Prace Gl. Inst.  
G. (Centr. Inst. Min., Stalingrad). Ser. A, 1954, No. 10, 10  
Str. 1). (L).

L 2060-66

ACCESSION NR: AP5027291

CZ/0053/65/014/002/0093/0097

AUTHOR: Chvapil, M.; Hacek, M.; Murych, J.

TITLE: Physiology of fibroblasts. Study of biosynthesis of collagen in tissue cultures of fibroblasts

SOURCE: Ceskoslovenska fyziologie, v. 14, no. 2, 1965, 93-97

TOPIC TAGS: cytology, tissue physiology, biosynthesis, biochemistry, amino acid, protein, histology, cell physiology

ABSTRACT: Physiology of fibrogenous cells, osteoblasts, and chondroblasts is discussed; morphological characteristics are described, mitochondria, cytoplasmatic granules and their composition are discussed. Free aminoacids characteristic of collagen accumulating in fibroblasts are evaluated. Biosynthesis of collagen proteins in ribosomes, shape changes in endoplasmic reticula are discussed. Investigation of collagen structure by X-ray diffraction, electron microscope, chemical analysis, and sequential

Card 1/2

L 2060-66

ACCESSION NR: AP5027291

analysis is described. Biophysics, chemistry, interaction of molecules, transverse aggregation, pathology, and homeostasis of tropocollagen, its precursors, and its polymerisation are described. Study of fibroblastic effect of industrial dusts by means of tissue cultures is discussed. Certain concentration of silicic acid induce collagen formation. Collagen metabolism in diploid cells is discussed. Diploid cells die in a 3rd generation, unlike heteroploid cell strains. Diploids maintain 46 chromosomes modus. Content changes of protein in fibroblasts according to origin are described. Hydroxyproline content of cells is discussed. Collagen protein metabolism study by means of tagged aminoacids and tagged S is described. Orig. art. has: 2 tables.

ASSOCIATION: Ustav hygieny prace a chorob z povolani, Prague (Institute of Work Hygiene and Occupational Diseases); Ustav vyzkumu vyvoje ditete fak. detsk. lek. KU, Prague (Institute for Research of Child Development, Faculty of Pediatrics, KU)

SUBMITTED: 00

ENCL: 00

SUB CODE: LS

NR REF SOV: 001

OTHER: 020

JPRS

Card 2/2

HURICH, Josef; CHVAPIL, Milos

Relation of proline hydroxylation and collagen biosynthesis to other metabolic processes. Prac. lek. 7 no.8:342-345 0 '65.

1. Ustav hygieny prace a chorob z povolani v Praze (reditel - prof. dr. J. Teisinger, DrSc.).

I 42261-66  
ACC NR: AP6031470

SOURCE CODE: CZ/0008/66/000/003/0312/0333

AUTHOR: Hurych, Josef; Chvapil, Milos

ORG: Institute for Work Hygiene and for Occupational Diseases, Prague (Ustav hygieny prace a chorob z povolani)

TITLE: Biosynthesis and metabolism of collagen

SOURCE: Chemické listy, no. 3, 1966, 312-333

TOPIC TAGS: biosynthesis, biologic metabolism, protein

ABSTRACT: Metabolism of collagen depends on the atypical content of aminoacids, and the presence of hydroxyproline and hydroxylysine, on the amount of tropocollagen, and its age. The structure of tropocollagen is discussed. Biosynthesis of collagen is compared to the synthesis of proteins. Activation of hydroxyproline and hydroxylysine, their complexes with s-ribonucleic acid, formation of peptidic chains, and the investigation of the structure of collagen by an electron microscope are described. Hydroxylation of proline and lysine, formation of their hydroxy-derivatives, metabolism of collagen proteins, and the mechanism regulating this metabolism are described. Orig. art. has: 6 figures, 3 formulas and 3 tables.  
[JPRS: 36,002]

SUB CODE: 06, 07 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 102

Card 1/1

HURYNOWICZ, Janina

The problem of biophysics. Kosmos biol 12 no.2:157-158 '63.



HURYNOWICZ, JANINA.

Wplyw niektorych srodkow nasennych i narkotycznych na zmiany chronak-  
syjnej pobudliwosci ukladu bladnikowego u krolikow. L'influence de  
certaines substances narcotiques et somniferes sur l'excitabilite  
chronaxique de l'appareil vestibulaire chez le lapin. Torun Wzds.  
Nauki M-stwa Oswiaty, 1947. 95 p. Influence of some somniferous  
and narcotic drugs on changes in the chronaxie of the vestibule system  
of rabbits. French summary.  
CU Not in DLC

SOURCE: East Europeans Accessions List (REAL), LC, Vol. 5, no. 3, March 1956

HURYNOWICZ, J.												PROCESSES AND PROPERTIES INDEX											
11-H																							
<p>The effect of certain narcotic and soporiferous substances on the chromatic excitability of the vestibular apparatus of the rabbit. J. Hurynowicz (Univ. Torun). <i>Acta Biol. Exptl.</i> (Warsaw) 14, 211-224 (1947) (in French).</p> <p>The reflexes during narcosis (rolling of the eye, movement of the head, and nystagmus) produced by the administration of chloral hydrate, chloralose, avertine, NaBr, <math>HgSO_4</math>, medonal, pantopon, and scopolamine were observed. H. H. Samant</p>																							
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25 345  
HURYNOWICZ, Janina. Higiena pracy umysłowej a pory roku. [Mental hygiene and the seasons of the year.] *Pracznik Meteorologiczny i Hydrologiczny*, Warsaw, No. 2 1:44-55, Dec. 1948. English summary p. 55-58. DWB Since 1923 the author has collected data and references and made a study of the effect of climatic factors and season on mental efficiency and nervous diseases among students in Poland. A comparison with similar studies, made in America, France, Germany and Russia, show that there is a seasonal variation with a peak in January February and a rapid decrease in efficiency and increase in nervous disorders during spring and early summer. Suggestions are made for revising the school year (and vacation periods), to allow examinations to come at the optimum time. Subject Headings: Mental hygiene, Climatic effects, Medical meteorology. 37 R.

351.500.012  
MAY 1951

U.S.S.R. METALLURGICAL LITERATURE CLASSIFICATION

HURYNOWICZ, J.

The vestibular system of the rabbit in fatigue. Bull. Soc. amis sc.  
Poznan; Ser. C. no.3:17-34 1952. (CML 23:4)

1. Presented by Prof. Janina Jurynowicz, M.D. before the Class of  
Medicine on 25 Feb, 1950. 2. Of the Department of Neurology of Nicolaus  
Copernicus University in Torun.

HURYNOWICZ, Janina

~~CHRONAXY~~  
Chronaxy and Cybulski's absolute method. Acta physiol. polon. 5 no.4:  
465-475 1954.

1. Z Zakładu Neurofizjologii i Fizjologii Porównawczej Uniw.  
Mikolaja Kopernika w Toruniu. Kierownik: prof.dr. J.Hurynowicz.  
(NERVES, physiology.  
chronaxy, determ., Cybulski's method)

HURYNOWICZ, Janina

Effects of Schisandra chinensis on EEG of man exhausted by mental work; preliminary note No. 1. Neur. &c. polska 6 no.6: 781-789 Nov-Dec 56.

1. Zakład neurofizjologii i Fizjologii Porównawczej U.M.K. w Toruniu, Kierownik Prof. dr. J. Hurynowicz.

(FATIGUE, physiol.

eff. of Schisandra chinensis extracts on EEG of man exhausted by ment. work (Pol))

(PLANTS, extracts

Schisandra chinensis, eff. on EEG of man exhausted by ment. work (Pol))

(ELECTROENCEPHALOGRAPHY, eff. of drugs on

Schisandra chinensis extracts in man exhausted by ment. work (Pol))

HURYNOWICZ, J.

POLAND/Human and Animal Physiology - General Problems.

V-1

Abs Jour : Ref Zhur - Biol., No 1, 1958, 3637

Author : J. Narebski, Z. Hinz, J. Hurynowicz

Inst : -

Title : Electroencephalography in Rabbits by Contact Electrodes

Orig Pub : Acta Physiol. Polon., 1956, 7, No 4, 487-493

Abstract : Electrodes are described which are analogous to those used in clinical tests.

Card 1/1

POLAND / Human and Animal Physiology. Nervous System: T

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R000

31(

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102230.

Author : Chmielewska, Z.; Narebski, J.; Hurynowicz, J.

Inst : ~~Wojewódzki~~ Zakład Neurofizjologii Porównawczej - U.M.K. - Toruniu \*\*\*

Title : The Influence of Schizandra Chinensis on EEG in Emaciated Patients with Neurosis with Depression Traits. Preliminary Report. II.

Orig Pub: Neurol., neurochirurg. i psychiatr. polska, 1957, 7, No 1, 41-51.

Abstract: in 4 patients, the intake of Schizandra Chinensis tincture (for 28 days, 40 drops per diem, in fatigue induced by mental stress) was accompanied by disappearance of dysrhythmia and morphologic dissimilarity of the waves on EEG. The number and amplitude of alpha-waves increased; they acquired a spindleshaped periodicity.

\*\*\*Kierownik: prof. dr J. Hurynowicz.

Card 1/1

MIETKIEWSKI, E.; KAMYSZEW, A.; HURYNOWICZ, J.

Chronaxymetric studies on the vagus system in artificial hibernation.  
Acta physiol. polon. 8 no.3:466-467 1957.

1. Z Zakładu Fizjologii Pomorskiej A. M. w Szczecinie Kierownik: prof.  
dr E. Mietkiewski Z Zakładu Neurofizjologii i Fizjologii Porównawczej  
Uniwersytetu im. M. Kopernika w Toruniu Kierownik: prof. dr J. Hurynowicz.

(HIBERNATION, ARTIFICIAL, effects,  
on vagal chronaxymetry (Pol))

(NERVES, VAGUS, physiology,  
chronaxymetry, eff. of artif. hibernation (Pol))



*HURYNOWICZ J*

NOWICKA, H.; BARGIEL, Z.; NAREBSKI, J.; JANISZEWSKI, L.; HURYNOWICZ, J.

Effect of Schizandra chinensis on vestibular chronaxy following hypothermia in rabbits. Acta physiol. polon. 8 no.3:487-488 1957.

1. Z Zakładu Neurofizjologii i Fizjologii Porównawczej Uniwersytetu im. M. Kopernika w Toruniu Kierownik: prof. dr J. Hurynowicz.

(ANALEPTICS, effects,

Schizandra chinensis, on vestibular chronaxy after hypothermia in rabbits (Pol))

(VESTIBULAR APPARATUS, effect of drugs on,

Schizandra chinensis on chronaxy after hypothermia in rabbits (Pol))

(HYPOTHERMIA, effects,

on vestibular chronaxy response to Schizandra chinensis (Pol))

*Acta Physiologica Polonica*  
NOWICKA, H.; NAREBSKI, J.; JANISZEWSKI, L.; HURYNOWICZ, J.; BARGIEL, Z.

Effect of Schizandra chinensis on electroencephalograms in rabbits following hypothermia. Acta physiol. polon. 8 no:3:488-490 1957.

1. Z Zakładu Neurofizjologii i Fizjologii Porównawczej Uniwersytetu M. Kopernika w Toruniu Kierownik: prof. dr J. Hurynowicz

(ANALEPTICS, effects,

Schizandra chinensis, on EEG after hypothermia in rabbits (Pol))

(ELECTROENCEPHALOGRAPHY, effect of drugs on

Schizandra chinensis after hypothermia in rabbits (Pol))

(HYPOTHERMIA, effects,

on EEG responses to Schizandra chinensis in rabbits (Pol))

HURYNOWICZ, Janina; KADZIMIA, Wojciech

An improved system for the investigation of vasomotor chronaxy of the thumb. Postepy hig. med. dosw. 12 no.5:521-526 1958.

1. Zaklad Neurofizjologii i Fizjologii Porownawczej Uniwersytetu Mikolaja Kopernika Torun, ul. Mickiewicza 24/26.

(PLETHYSMOGRAPHY,

registration of vasomotor chronaxy of thumb (Pol))

BARGIEL, Z.; HURYNOWICZ, J.

Chronaxymetric studies on the excitability of the vasomotor system of the rabbit ear based on a visual method. Acta physiol.polen.11 no.5/6:648-650 '60.

1. Z Zakładu Neurofizjologii i Fizjologii Porównawczej U.M.K. w Toruniu. Kierownik: prof.dr J. Hurynowicz.  
(VASOMOTOR SYSTEM physiol)

KADZIELA, W.; LISICKI, E.; HURYNOWICZ, J.

Attempted photoelectric registration of vasomotor reactions in the rabbit ear. Acta physiol.polon. 11 no.5/6:769-770 '60.

1. Z Zakladu Neurofizjologii i Fizjologii Porownawczej Uniwersytetu M.Kopernika w Toruniu, Kierownik: prof.dr J.Hurynowicz.  
Z Zakladu Fizyki Doswiadczalnej Uniwersytetu M.Kopernika w Toruniu.  
Kierownik: prof. dr A.Jablonski.  
(VASOMOTOR SYSTEM physiol)

HURYSZ, Jan, doz. inż.; SIKORA, Włodzimierz, dr inż.

Influence of the technical parameters of caved in long-  
walls on the concentration of mining. Przegl gorn 20  
[i.e.19] no.9:353-357 3'63.

HURYSZ, J.

Hurysz J.

Hurysz J., Eng. "Long-Term Stocking of Flame Coal Fines." (Długoterminowe magazynowanie mialu płomiennego). Przegląd Górnictwa, No. 1, 1949, pp. 32-35.

Methods of stocking the flame coal fines. Organisation of this stocking in the whole coalfield, and not only in one or several times.

SO: Polish Technical Abstracts - No. 2, 1951

21  
CA HUR (52, J.

Further developments in underground gasification of coal  
by the baroboles method. ~~See LITTONS~~ *regional identity*  
7, 470-48 (1951).—A review of the work carried out in  
England since the middle of 1930. R. A. A.



HURYBZ, J.

Fuel Abstracts  
May 1954  
Gasification

3519. DEVELOPMENT OF UNDERGROUND GASIFICATION OF COAL BY HIGH PRESSURE METHOD. Huryba, J. (Przegl. gór., (Min. Rev.), 1952, vol. 8, 317-321; abstr. in Chem. Austr., 1953, vol. 47, 12/68). The author describes the introduction of highly compressed air into vertical drillings in order to split the individual coal seams and to lift whole sections. Interlayer cracks acquire a form of channels which are consequently utilized for low pressure gasification. Results and conclusions are given of experiments carried out. (L). C.A.

HURYSZ, J.

"A quickly built barrier against fire." (p.16) WIADOMOSCI GORNICZE (Panstwowe Wydawnictwa Techniczne) Katowice. Vol 4, no 1, Jan 1953

SO: EAST European Accessions List Vol 4, No 8, Aug. 1954

**"APPROVED FOR RELEASE: Thursday, July 27, 2000**

**CIA-RDP86-00513R00051831**

**APPROVED FOR RELEASE: Thursday, July 27, 2000**

**CIA-RDP86-00513R00051831(**

Huryss, J.

Economic utilization of coal deposits  
p. 7

PRZEGLED SPAWALNICTWA. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskichs  
i Instytut Spawalnictow) Warszawa, Poland. Vol. 11, No. 10/11, Oct/Nov. 1959

Monthly List of East European Accessions (EEAL) LC, Vol. 9, No. 2 Feb. 1959

Uncl.

HURYSZ, Jan, doc., mgr., inż.; WYSZOMIRSKI, Jerzy, m/r., inż.

Hardening of sand stowing. Przegl gorn 17 no.10:509-511 0 '61.

HURYBZ, Jan, doc. mgr ins.

Combine driving of headings for speedy advancing in longwall  
faces. Przegl gorn 18 no.9:497-503 S '62.

P/005/63/000/009/001/002

AUTHOR: Hurysz, J., Docent, Master of Engineering

TITLE: Fuming coal dumps

PERIODICAL: Przegląd techniczny, no. 9, 1963, 1

TEXT: Wastes, pollution and contamination resulting from industrial activities pose serious problems in the coal basins of Upper and Lower Silesia. Waste coal dumps tend to catch fire and to give off fumes polluting the air. They create a particularly hazardous condition in the highly industrialized and densely populated Gornoslaski Okrag Przemyslowy (Upper Silesia Industrial District). The annual accumulation of wastes in the vicinity of coal mines in the form of igneous rock, slag and ashes is considerable, e.g., in 1961 it amounted to about 33 million tons. Wastes tend to interfere with the normal operation of some mines, on surface and underground. Gradual elimination of accumulated igneous rock becomes a necessity igneous rock is suitable for certain construction purposes but, due to its petrographic composition and uneven granularity, requires additional processing and machinery. This possibility is to be further explored and gradually developed. The use of such waste as a general filler and for underpinning underground workings is recommended as an immediate solution. This would require partial crushing and sorting of the rock

Card 1 of 2

P/005/63/000/009/001/002

Fuming coal dumps....

only. Other possibilities of utilizing mining wastes in the mine proper will be taken up in the next issue of this periodical. The growing accumulations of mining wastes in relation to the growth of the coal output is presented in form of a graph.

ASSOCIATION: Główny Instytut Górnictwa (Chief Institute of Mining)

Card 2 of 2



HURYCZ, Jan, doc. mgr ins.

The end of smoky heaps. Przegl techn 84 no.12:4,6 24 Mr '63.

1. Główny Instytut Górnictwa, Katowice.

ADAMOVIC, V.M., dipl. hem.; HUS-MARKOVIC, M., mr. farm.;  
KOZOMARA, S., apsol. hemije

Isolation and identification of certain carbohydrates in  
dehydrated juice of sweet cabbage by means of one-dimensional  
paper chromatography. Glas. hig. inst. 9 no.1/2:45-55 '60.

(VEGETABLES) (CARBOHYDRATES chem)

S.A. HULCH, V.

*Memorandum*

621.3.014.31 : 537.523.5

987. Theory of the steady-state d.c. arc. V. HULCH.  
Elektron. Obr., 48, 130-3 (No. 7-10, 1951) In  
Czech.

The theory is based on Holm, Kirschstein and Koppelman's investigation of the state of equilibrium of the current carriers in the steady-state arc [Přesl. Siemens Konz., p. 64 (1934)]; the equilibrium being assumed between diffusion and electromagnetic forces acting on the electrons in the plasma of an arc burning in a gas at atmospheric pressure. The derivation of an integro-differential equation of state of the arc on this assumption is fairly simple, but the subsequent introduction of approximate and arbitrary temperature and pressure relations of the electron mobility, diffusion coefficient and field gradient is dictated by reasons of mathematical expediency. The validity of the solution so obtained (in terms of arc radius) is discussed and a relation between power per cm arc length and arc radius is found. A numerical example for a 4 A-arc in air yields an arc diameter of 6 mm and agrees with experimental results; the validity of the results is claimed to have been verified for arcs up to 1 000 A. U. F. KRAUS

Nov 52

HUSA, V.

HUSA, V. Cihelka, J. S. Dzierzbicki's High-Tension Switches; a book review. p.489

Vol. 45, no. 9, Sept. 1956

ELEKTROTECHNICKY OBZOR

TECHNOLOGY

Praha, Czechoslovakia

Sci East European Accession Vol. 6, No. 2, 1957



"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051831

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051831(

HUSA, V.

615. NEW TECHNOLOGY FOR THE MANUFACTURE OF  
GERMANIUM POWER DIODES, 25

J. Cihelka, L. Cerny, V. Hrusa, J. Kříd and J. Ladner.  
Blaboproudy Obzor, Vol. 19, No. 8, 689-91 (1988). In Czech.

The new technique is based on the use of a special carbon jig which is constructed in such a manner that all the technological operations involved in the making of a germanium diode, are completed by placing a fully assembled jig in the processing oven. The assembly of the jig is as follows. A molybdenum cup containing a piece of 0.1 mm tin foil is placed on top of a copper base plate which carries a sheet of 0.3 mm tin foil; a germanium wafer is placed on top of the foil inside the cup; on top of the wafer comes a piece of 0.3 mm indium foil and a second Mo cup; this cup also contains a piece of tin foil having a thickness of 0.7 mm; a braided copper lead, terminated with a Fe end-piece, is placed into the top cup. The use of the jig permits the manufacture of 10 A diodes with a small spread.

R.S. Sidorowicz

Distr: held

621.316.57.064.45  
135. INFLUENCE OF THE NATURAL FREQUENCY OF THE  
RECOVERY VOLTAGE UPON THE INTERRUPTION PERFORM-  
ANCE OF AIR-BLAST CIRCUIT BREAKERS. V. Hnec and J. Cibulka.  
Elektrotech. Otsor, Vol. 47, No. 7, 349-54 (1958). In Czech.

2  
Discusses the breakdown strength between contacts as influen-  
ced by air pressure, air current, electron emission and electrode  
evaporation. Gives oscillogram of air pressure in front and behind  
the quenching chamber as function of time after contact breaking.  
Measurements of the interruption performance of a customary

TA  
//  
circuit-breaker at 30, 18 and 9 kV as function of frequency,  $f$ , lead  
to the relation:  $f = C I^a$ ,  $I$  being the highest current the circuit-  
breaker can interrupt,  $C$ , a voltage dependent coefficient and  $a$  a  
coefficient not dependent upon voltage. Observations of times at  
which the arc restrikes have shown that these occur essentially in  
two separate periods. N. Klein.



HUSA V.

CZECHOSLOVAKIA/Electronics - Photocells and Semiconductor Device. H

Abs Jour : Ref Zhur Fizika, No 1, 1960, 1551

Author : HUSA, V., Kriz, J., Ladnar, J.

Inst : -

Title : p\* -- p -- n\* Junctions in Silicon

Orig Pub : Slaboproudy obzor, 1959, 20, No 5, 284-287

Abstract : The author considers the physical basis of the p\* -- i -- n\* junction and justifies the choice p\* -- p -- n\* junction for use in a silicon diode. The technology of manufacture of diodes with large junction surface and with reverse voltage greater than 1,000 volts is considered. Conditions are determined for obtaining sufficiently small resistance in the forward direction.

Card 1/1

HUSA, V. ; KVASIL, B.

Measurement of the conductivity of semiconductors in the microwave range. p. 667

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstve, Ministerstvo poju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV)  
Praha, Czechoslovakia, Vol. 20, no. 11, Nov. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 1,  
Jan. 1960

Uncl.

HUSA, V.; CIHELKA, J.

Analysis of the volt-ampere characteristics of a germanium diode in the reverse and forward direction. p.379

ELETROTECHNICKY OBZOR. (Ministerstvo tezkého strojírenství a Československé vědecká technická společnost pro elektrotechniku při Československé akademii věd) Praha, Czechoslovakia  
Vol.48, no.7, July 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11  
Nov. 1959  
Uncl.

CZECHOSLOVAKIA/Electricity - Semiconductors.

G

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9087

Author : Cerny Ladislav, Husa Vaclav, Kriz Josef, Ladmar Josef

Inst : -

Title : The p-n Junction in Germanium

Orig Pub : Electrotech. obzor, 1959, 48, No 8, 406-409

Abstract : A brief description of the physical principle of the p-n junction in germanium, and a comparison of the theoretical premises with the experimental data. Problems of technology are considered, and certain results of experimental investigation of the p-n junction are given. A technology is recommended, which insures small dispersion of the characteristic in the forward and backward directions.  
See Referat Zhur Fizika, 1960, No 3, 6618.

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HUSA, V.; CIHELKA, J.; CERNY, L.

Contribution to the problem of overvoltage in circuits with germanium diodes and protection against it. p. 478.

ELEKTROTECHNICKY OBZOR. (Ministerstvo tezkho strojirenstvi a  
Ceskoslovenske vedecka technicka spolecnost pro elektrotechniku pri  
Ceskoslovensky akademie ved) Praha, Czechoslovakia. Vol. 48, no. 9, Sept. 1959.

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Uncl.

HUSA, V -

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E192/E482

9,4340 (1143, 1160, 1331)

AUTHORS: Husa Václav, Inž dr., Cihelka Jaroslav, Engineer and  
Cerný Ladislav, Engineer

TITLE: Analysis of Voltage-Current Characteristics of Silicon Diodes

PERIODICAL: Elektrotechnický Obzor, 1960. Vol.49, No.10, pp.530-537

TEXT: The characteristics of several silicon rectifier diodes are analysed. One type of the diode is made of n-type of material and results in a p-n-n<sup>x</sup> junction. Another diode is made of type-p material and its base plate is alloyed with aluminium on one side and with AuSb on the other. In this way p<sup>x</sup>-p-n junctions are obtained. First, the inverse current voltage-characteristics of n-type and p-type junctions are considered. The n-junctions had the following parameters: average resistivity of 100 Ω cm, thickness of the base plate of 0.5 mm and area of 150 mm<sup>2</sup>. The measured characteristics of these junctions are shown in Fig.1 and 2; the figures show the current density in μA/cm<sup>2</sup>. Theoretically the current density in the reverse direction is expressed by

$$J_n = J_0 e^{-\alpha \frac{W}{kT}} \quad (1)$$

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